Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-17-01
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. **Date: 22/03/2018**
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency : Sri.Madhava Reddy K, No.898, 1st Cross, Mauneshwara Nagara, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/PD/WO/0039/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-03-18
Sample ID No : 2018-03-17-01 /01
Customer ID : M25 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	15/03/2018	22/03/2018	150.35 X 150.82 X 150.00	22676	8.220	476.2	21.0	21.4
2	M25 Concrete	M25	15/03/2018	22/03/2018	150.44 X 150.65 X 150.89	22664	8.300	480.5	21.2	
3	M25 Concrete	M25	15/03/2018	22/03/2018	150.33 X 150.44 X 150.65	22616	8.100	495.3	21.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-17-01
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. **Date: 22/03/2018**
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency : Sri.Madhava Reddy K, No.898, 1st Cross, Mauneshwara Nagara, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/PD/WO/0039/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-03-18
Sample ID No : 2018-03-17-01 /03
Customer ID : M25 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	15/03/2018	22/03/2018	150.99 X 150.85 X 150.44	22777	8.298	466.9	20.5	20.8
2	M25 Concrete	M25	15/03/2018	22/03/2018	150.78 X 150.99 X 150.48	22766	8.246	480.4	21.1	
3	M25 Concrete	M25	15/03/2018	22/03/2018	150.55 X 150.89 X 150.54	22716	8.546	474.8	20.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-24-01 **Date: 27/03/2018**
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency : Sri.Madhava Reddy K, No.898, 1st Cross, Maruneshwara Nagara, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/PD/WO/0039/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-03-18
Sample ID No : 2018-03-24-01 /01
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	20/03/2018	27/03/2018	150.55 X 150.89 X 150.46	22716	8.231	565.6	24.9	25.3
2	Cement Concrete Pavement	M30	20/03/2018	27/03/2018	150.48 X 150.98 X 150.44	22719	8.324	570.3	25.1	
3	Cement Concrete Pavement	M30	20/03/2018	27/03/2018	150.98 X 150.84 X 150.56	22774	8.745	589.8	25.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-03-24-01 Date: 27/03/2018
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency : Sri.Madhava Reddy K, No.898, 1st Cross, Maruneshwara Nagara, Nagasandra Post, Bangalore-560073
Customer's Reference : BBMP/EE/PD/WO/0039/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-03-18
Sample ID No : 2018-03-24-01 /03
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	20/03/2018	27/03/2018	149.78 X 150.44 X 150.78	22533	8.014	565.6	25.1	25.7
2	Cement Concrete Pavement	M30	20/03/2018	27/03/2018	151.24 X 150.63 X 150.98	22781	8.196	601.4	26.4	
3	Cement Concrete Pavement	M30	20/03/2018	27/03/2018	149.77 X 150.24 X 150.63	22501	8.174	578.3	25.7	

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2018-03-01-01	**Date**: 03-03-18
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No 13	
Agency	:	Sri.Madhava Reddy K, No 898, 1st Cross, Maneshwara Nagara, Nagasandra Post, Bangalore-560073	
Customer Refernace	:	BBMP/EE/PD/WO/0039/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-03-18	
Sample ID No	:	2018-03-01-01/01	
Type of Mix	:	GSB (Granular Sub Base)	
Date of test	:	01-03-18	
Oven Dry Weight	:	10000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	659	659	6.6	93.4	80-100
26.5	2045	2704	27.0	73.0	55-90
9.5	3124	8028	80.3	19.7	35-65
4.75	758	6786	67.9	32.1	25-55
2.36	1089	7875	78.8	21.3	20-40
0.425	443	8319	83.2	16.8	10-25
0.075	1255	9574	95.7	4.3	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.70%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-05-01	**Date**: 05-03-18
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore	
Address	:	Project Sub Division, BBMP, Bangalore	
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No 13	
Agency	:	Sri.Madhava Reddy K, No 898, 1st Cross, Maneshwara Nagara, Nagasandra Post, Bangalore-560073	
Customer's Reference	:	BBMP/EE/PD/WO/0039/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-03-18	
Sample ID No	:	2018-03-05-01 /01	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269: 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 (Part 1,2,3,4,5 & 11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2: Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3: Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4: Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5: Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11:DETERMINATION OF DENSITY , Clause 6	
Date of test	:	06-03-18	
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%	

Sl.No	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	-
2	Fineness by Air permeability method (m^2/kg,Min)	275.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-05-01** **Date: 07-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency	:	Sri Madhava Reddy K, No.898, 1st Cross, Maruneshwara Nagara, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/PD/WO/0039/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-01 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-03-18

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-03-05-01** **Date: 10-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency	:	Sri.Madhava Reddy K, No.898, 1st Cross, Maruneshwara Nagara, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/PD/WO/0039/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-01 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:
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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-03-05-01**	**Date: 10-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No.13	
Agency	:	Sri.Madhava Reddy.K, No.898, 1st Cross, Mauneshwara Nagara, Nagasandra Post, Bangalore-560073	
Customer's Reference	:	BBMP/EE/PD/WO/0039/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-03-18	
Sample ID No	:	2018-03-05-01 /04	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	06/03/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.44	165.49	2.847	7922	151.4	19.1	19.1	23.9
2	B	100.41	165.38	2.844	7917	150.7	19.0	19.0	23.8
3	C	100.47	165.42	2.865	7926	152.3	19.2	19.2	24.0

Note:
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-01**	**Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No.13	
Agency	:	Sri.Madhava Reddy.K, No.898, 1st Cross, Mauneshwara Nagara, Nagasandra Post, Bangalore-560073	
Customer's Reference	:	BBMP/EE/PD/WO/0039/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	05-03-18	
Sample ID No	:	2018-03-05-01 /02(a)	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	05-03-18	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5663	5984	39.9	60.1	30-70
4	10 mm	4536	10520	70.1	29.9	10-35
5	4.75 mm	4153	14673	97.8	2.2	0-5
6	Pan	327	15000	100.0	0	—

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-03-05-01 Date: 07-03-18
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency	:	Sri.Madhava Reddy K, No 898, 1st Cross, Mauneshwara Nagara, Nagasandra Post, Bangalore-560073
Customer Reference	:	BBMP/EE/PD/WO/0039/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-01 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.1	94.9	90-100
3	10 mm	2435	2689	53.8	46.2	25-55
4	4.75 mm	1989	4678	93.6	6.4	0-10
5	Pan	322	5000	100	0	-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 554

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-03-05-01 Date: 07-03-18
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Civil Works and other development works at Dog Kennel in Mallasandra ward No.13
Agency	:	Sri Madhava Reddy K, No.898, 1st Cross, Mauneshwara Nagara, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/PD/WO/0039/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-01 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS. 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	83	83	8.3	91.7	90-100	90-100	90-100	95-100
3	2.36 mm	134	217	21.7	78.3	60-95	75-100	85-100	95-100
4	1.18 mm	166	383	38.3	61.7	30-70	55-90	75-100	90-100
5	600 micron	179	562	56.2	43.8	15-34	35-59	60-79	80-100
6	300 micron	187	749	74.9	25.1	5-20	8-30	12-40	15-50
7	150 micron	154	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES|

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